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Approved For Release 2003/0128 1814-RDP78B04779A002600120002-0

PAG/M-995/65 8 June 1965

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT: Procurement of Circular Slide Rules

- 1. A continuing requirement exists among the photo interpreters of PAG/NPIC and CIA/PID for a more advanced slide rule compatable with the current "state of the art" of photo interpretation. Presently the photo interpreter is using a slide rule designed primarily for manned aircraft photographic missions which is not adaptable to current needs. The photo interpreter continues to have the ever standing need to compute measurements "at his desk" for PI information purposes while exploiting film and arriving at his conclusions. This requirement in no way transgresses the more sophisticated mensural data determined by the photogrammetrists of the Technical Intelligence Division/NPIC that is published in NPIC PI reports but rather as a supplement to them. Two "advanced" slide rules have been suggested by employees and were evaluated by the PI elements. Of the two, the 8 inch circular slide rule, described below and the attached model, is preferred by the photo interpreters. Therefore, it is requested that the necessary arrangements be made by your staff for development and production of same.
- 2. The circular slide rule is eight (8) inches in diameter and is made in three (3) distinct parts; these are:
 - a. An eight (8) inch diameter base on which is inscribed equivalent ground measurements from one (1) foot up to one hundred thousand (100,000) feet. A photograph scale from one to one thousand (1:1,000) to one to one million (1:1,000,000) is located beneath the six (6) inch covering disc and can be observed only through the covering scale window.
 - b. A six (6) inch diameter movable inner disc having a scale window and equivalent image measurements in millimeters (outer scale) from 0.3 to 100.0 and thousandths of a foot (inner scale) from .001 to 1.000. A scribed index mark is present through the radial center of the scale window.
 - c. A movable, transparent arm having a radial index line that will allow interpretation of ground distances on the outer scale from image measurements on the inner scale, at scale values shown in the window.

3. The finished circular slide rule should be made of durable plastic with appropriate labeling for various scale and measurement identification. The PAG/NPIC and CIA/PID is interested in obtaining the cost per item with an initial requirement for approximately three hundred (300) slide rules. A sample of the circular slide is forwarded with this memorandum; although its physical dimensions are not exact, it shows the general configuration and associated scales. Exhibit A is a revision of the initial suggestion, Exhibit B, and incorporates a greater variation in photograph scale (1:1,000 to 1:1,000,000) and a wider latitude in image measurement capabilities (1 foot to 100,000 feet). Before production is started it is requested that a sample of the computer be made by the prospective manufacturer for PAG/PID evaluations.

Colonel, USA
Assistant for Photographic Analysis, NPIC

Date: 8 June

Chief, CIA/PID

Attachment:

sample of circular slide

Distribution:

Orig & 1 - Addressee

1 - Chm./Suggestion Awards Panel

1 - CIA/PID

2 - Asst for PA

* See attached "Suggestion" rubmitted in 1961 + again in 1965 +

still prending, Durn down has always stated that the PI would soon be Approved For Release 2003/10/128: CIA-RDP78B0/770A0026001200020 for line to computer of would not reed slide suley Justice.

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EMPLOYEE

PART 3 - RETURN COPY

FORM

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